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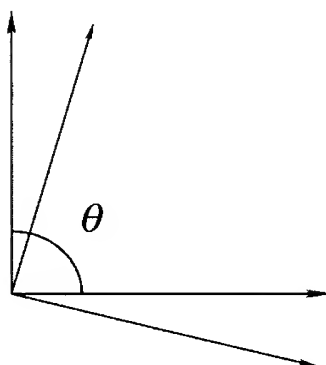


FIG. 1(a)

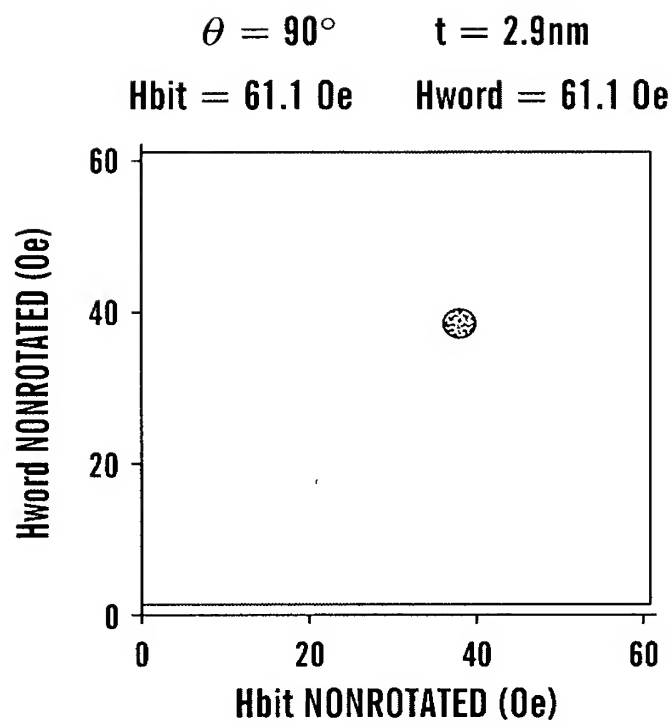


FIG. 1(b)

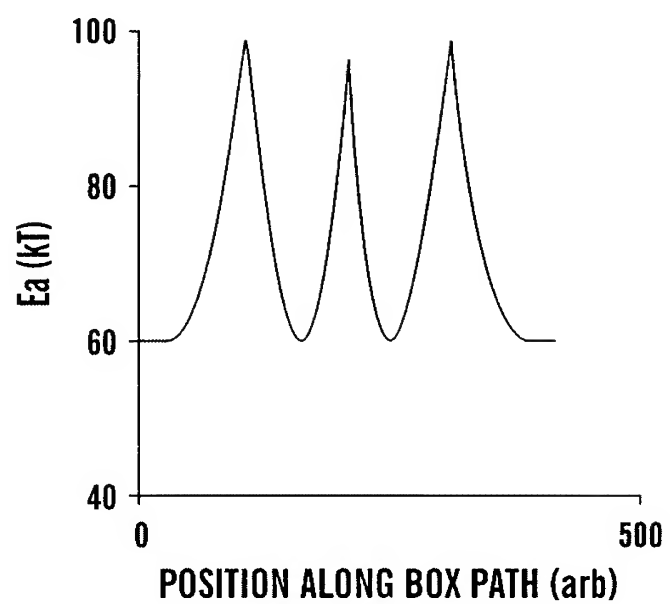
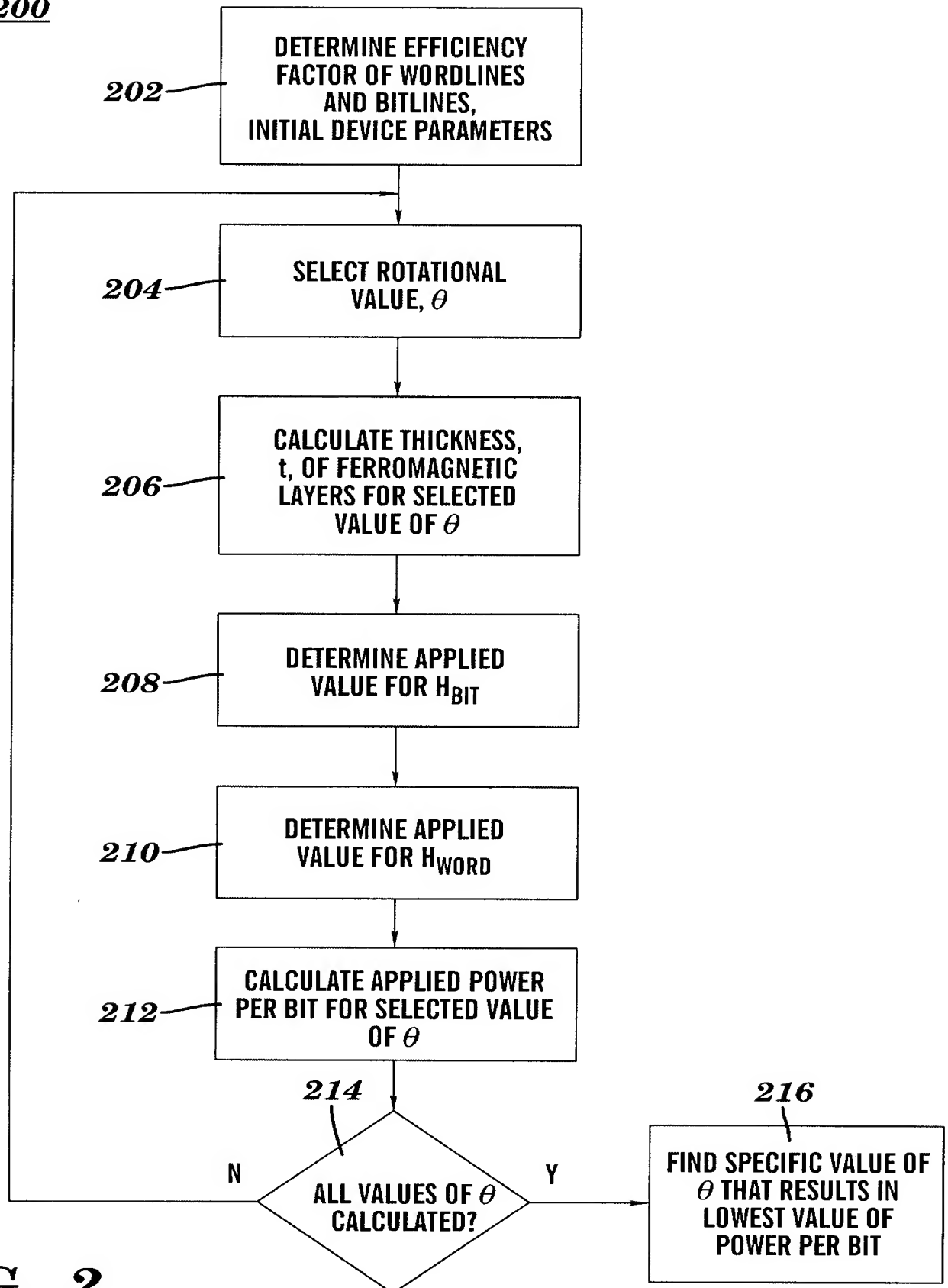


FIG. 1(c)

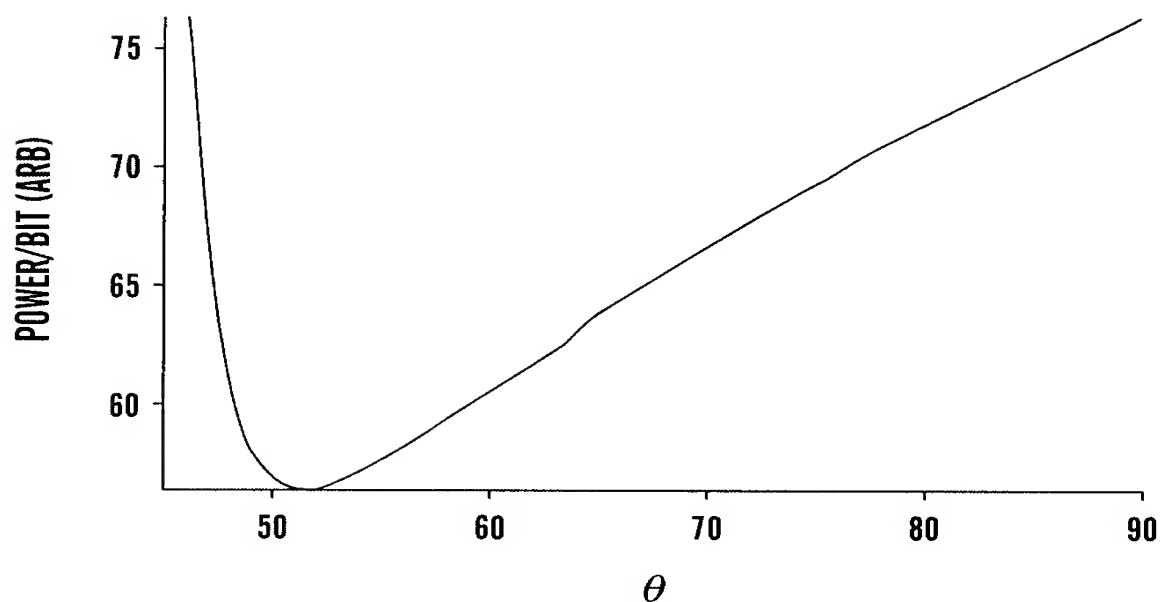
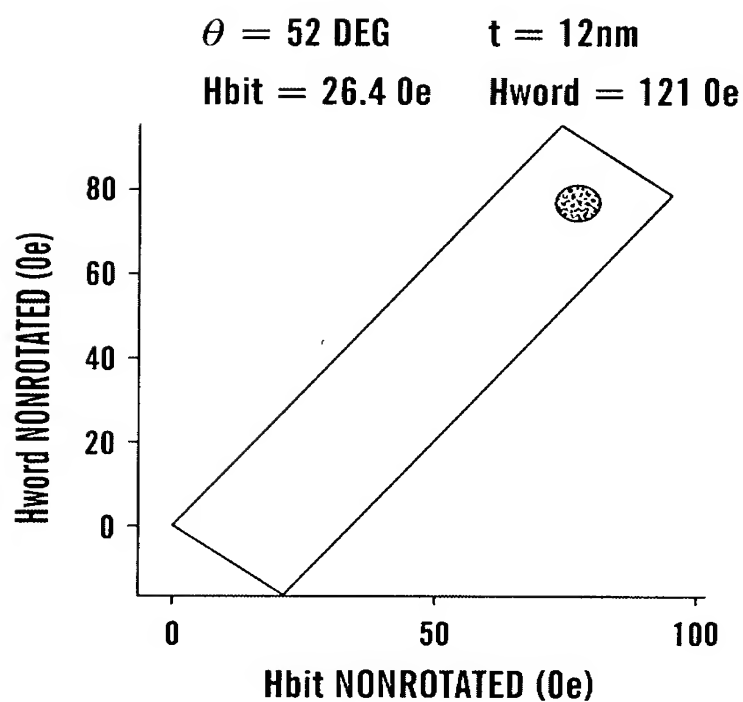
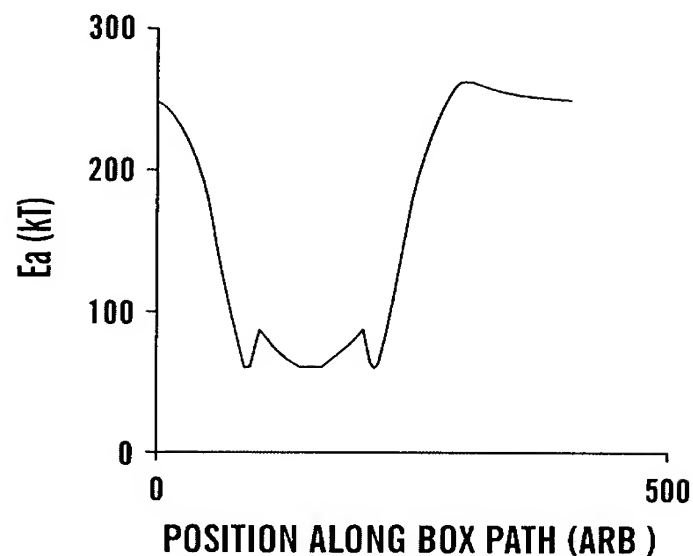
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200**FIG. 2**

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$$H_b + H_w/N \quad N=4$$

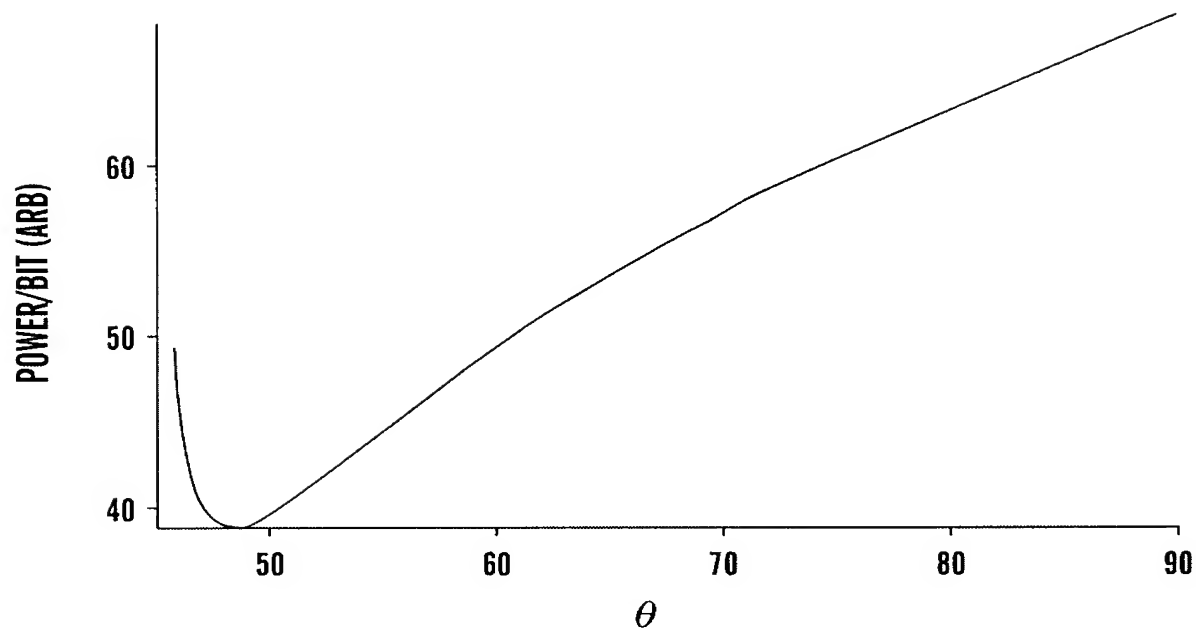
$$\theta_{\text{opt}} = 52^\circ \quad \text{POWER REDUCTION} = 26\%$$

**FIG. 3(a)****FIG. 3(b)****FIG. 3(c)**

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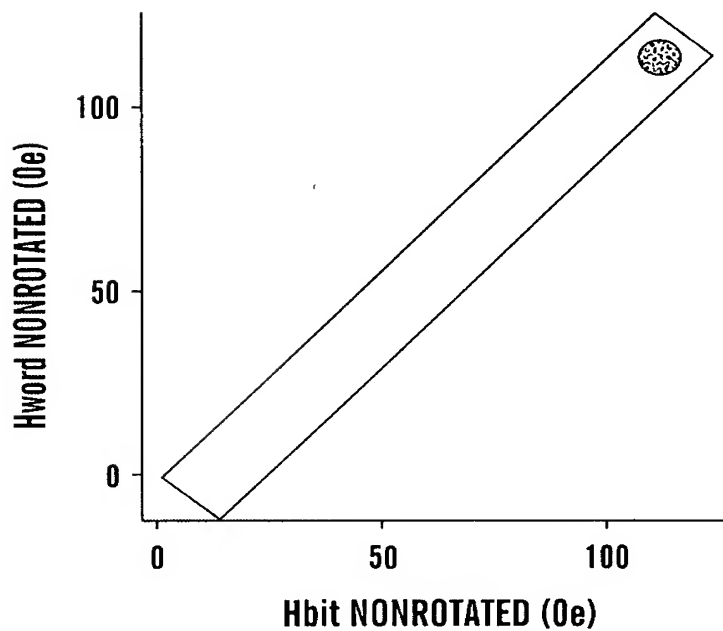
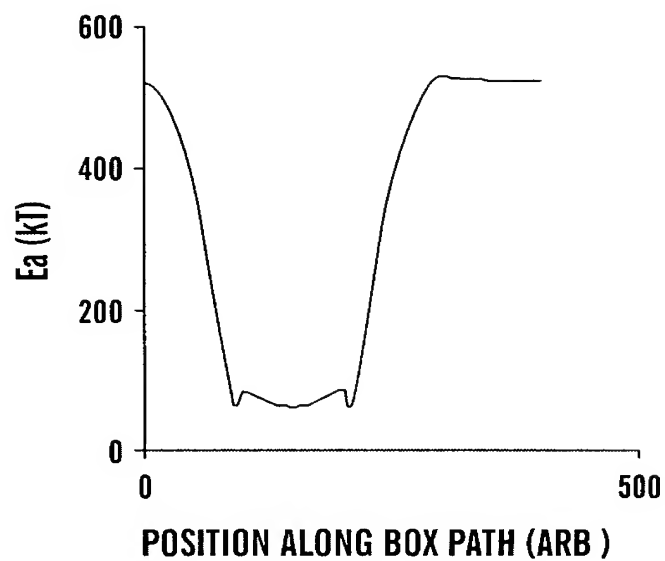
$$H_b + H_w/N \quad N=8$$

$$\theta_{\text{opt}} = 48.3^\circ \quad \text{POWER REDUCTION} = 43\%$$

**FIG. 4(a)**

$$\theta = 48.3 \text{ DEG} \quad t = 25\text{nm}$$

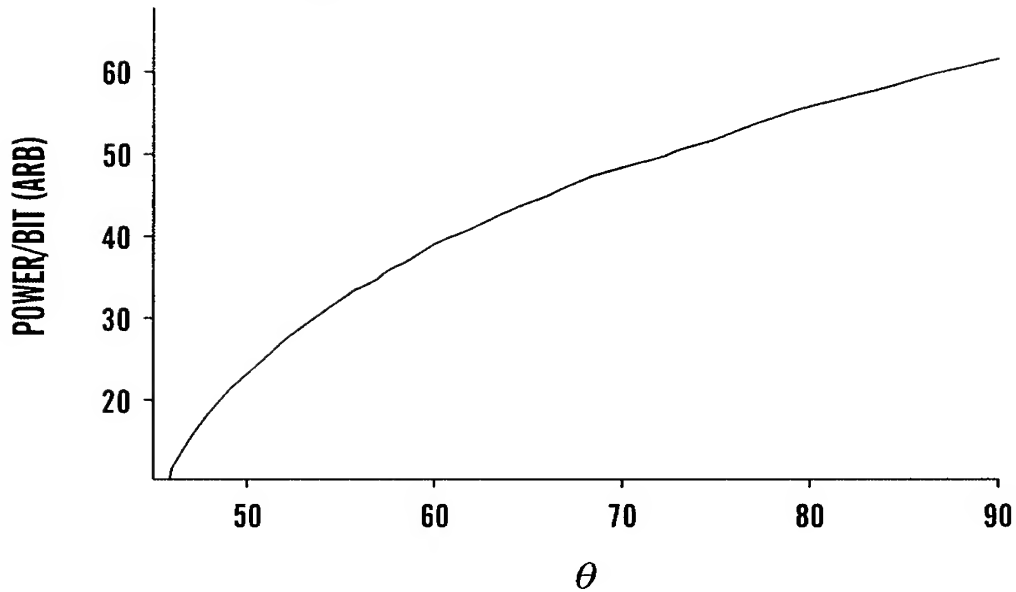
$$H_{\text{bit}} = 18.1 \text{ Oe} \quad H_{\text{word}} = 167 \text{ Oe}$$

**FIG. 4(b)****FIG. 4(c)**

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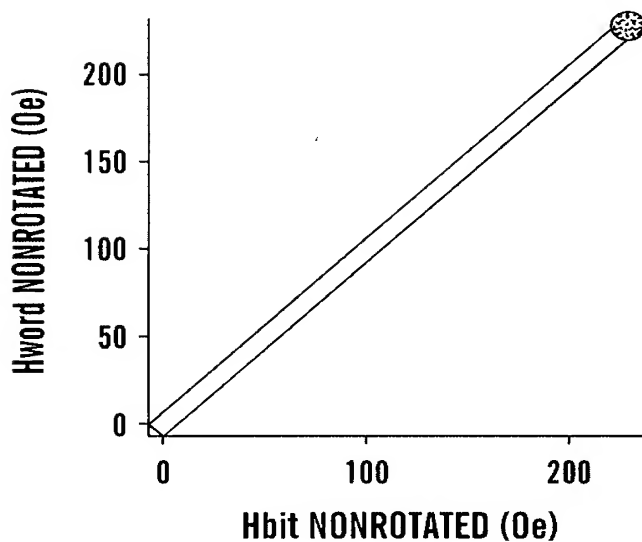
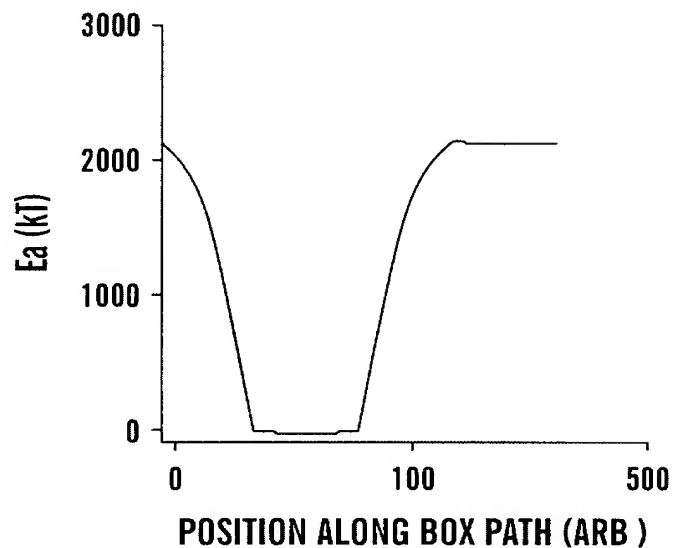
$$H_b + H_w/N \quad N=256$$

$$\theta_{\text{opt}} = 45.8^\circ \quad \text{POWER REDUCTION} = 83\%$$

**FIG. 5(a)**

$$\theta = 45.8 \text{ DEG} \quad t = 100\text{nm}$$

$$H_{\text{bit}} = 8.89 \text{ Oe} \quad H_{\text{word}} = 325 \text{ Oe}$$

**FIG. 5(b)****FIG. 5(c)**

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— Hbit (Oe)
- - - Hword (Oe)
- - - t (A)

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FOR $H_i=10$ $M_s=1500$ $a=b=300$ $J=0$

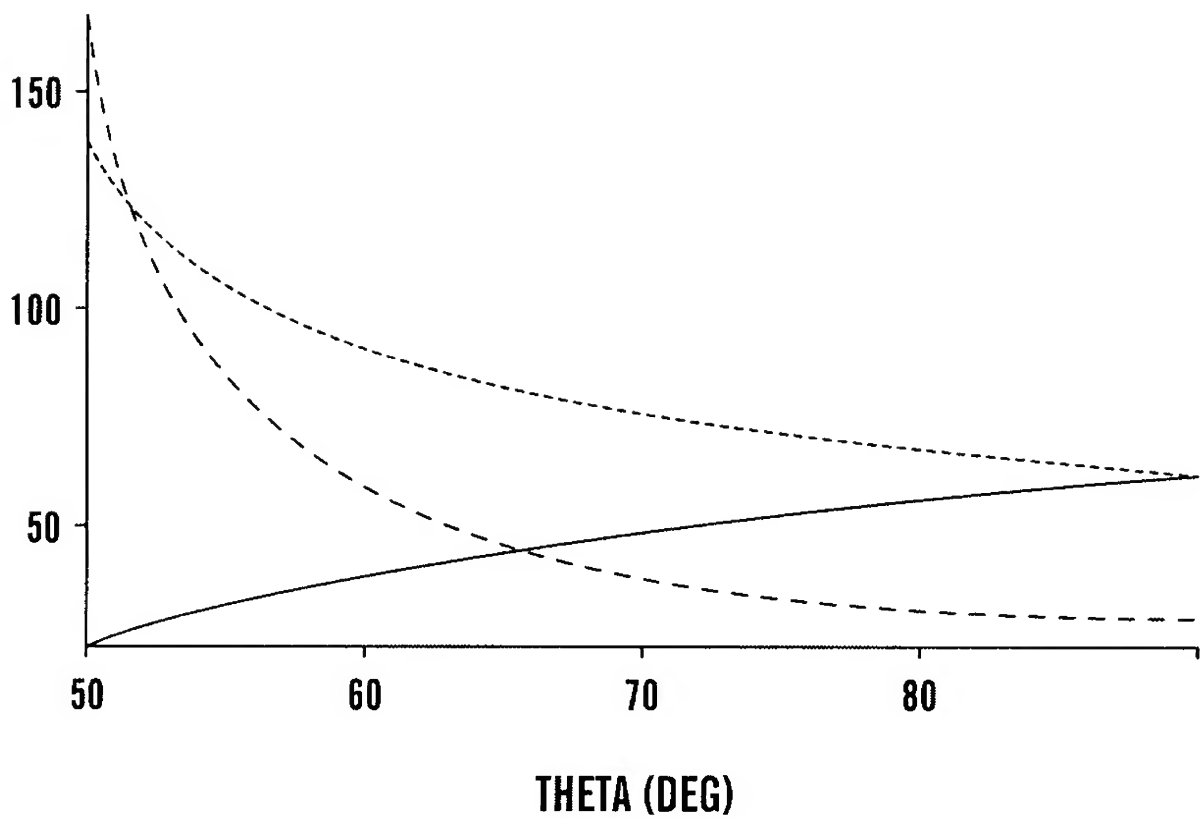
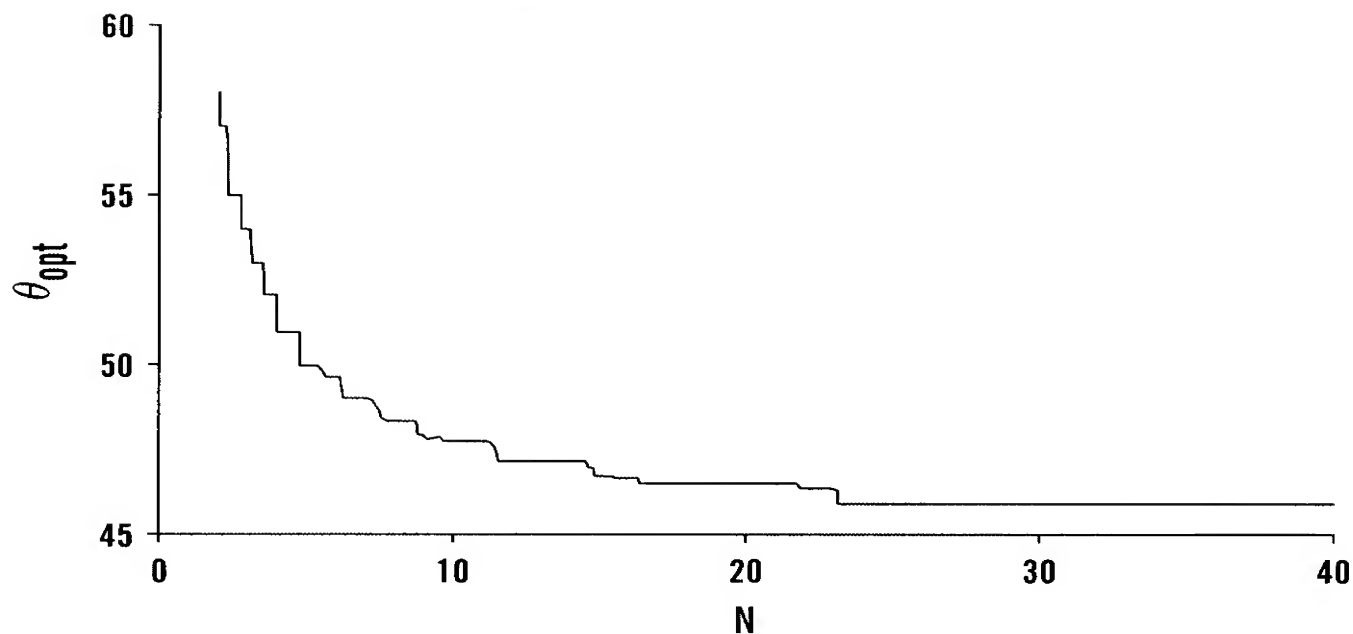
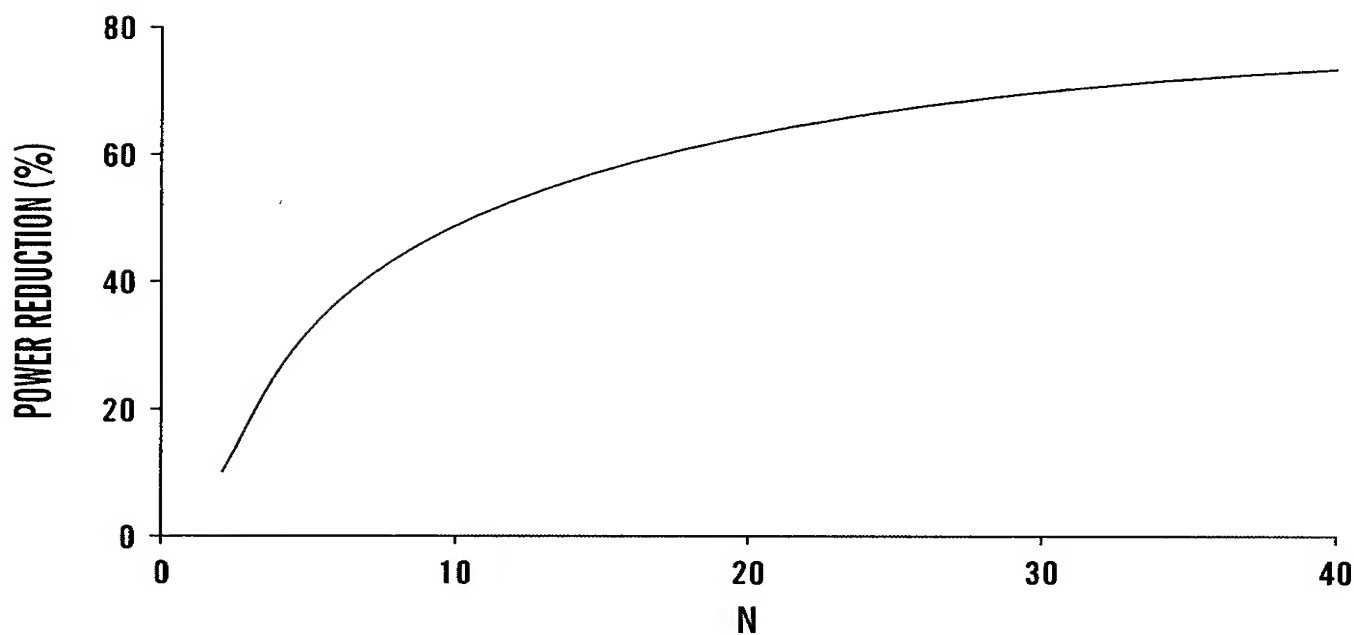
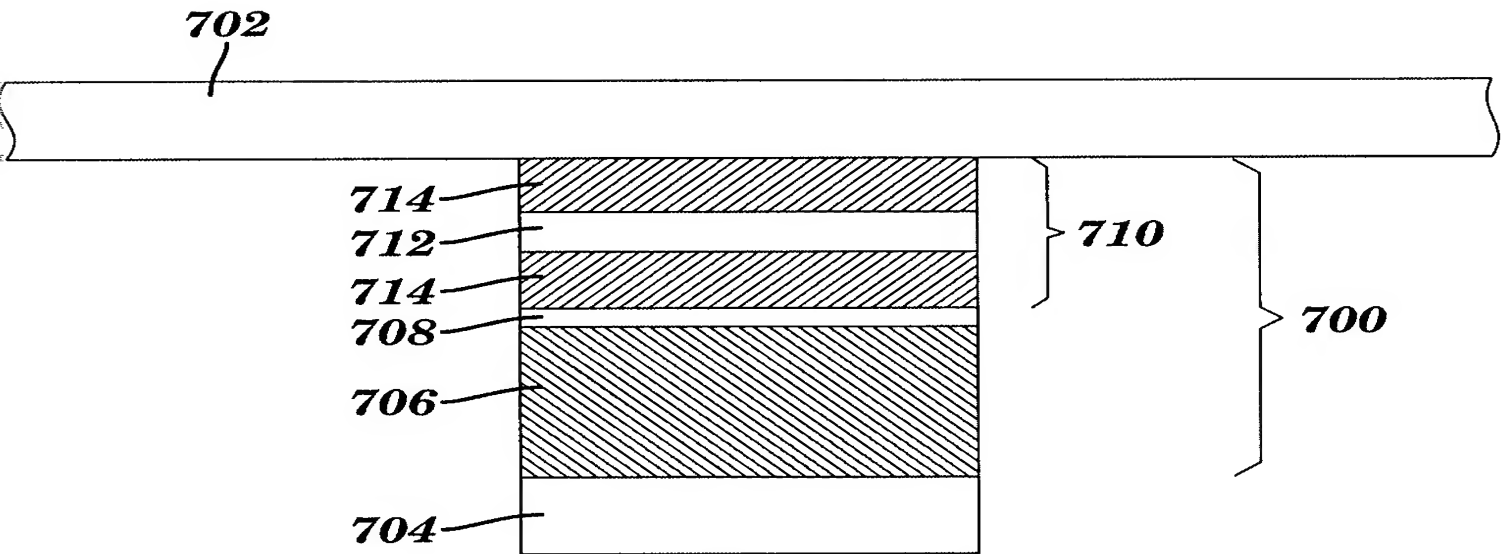
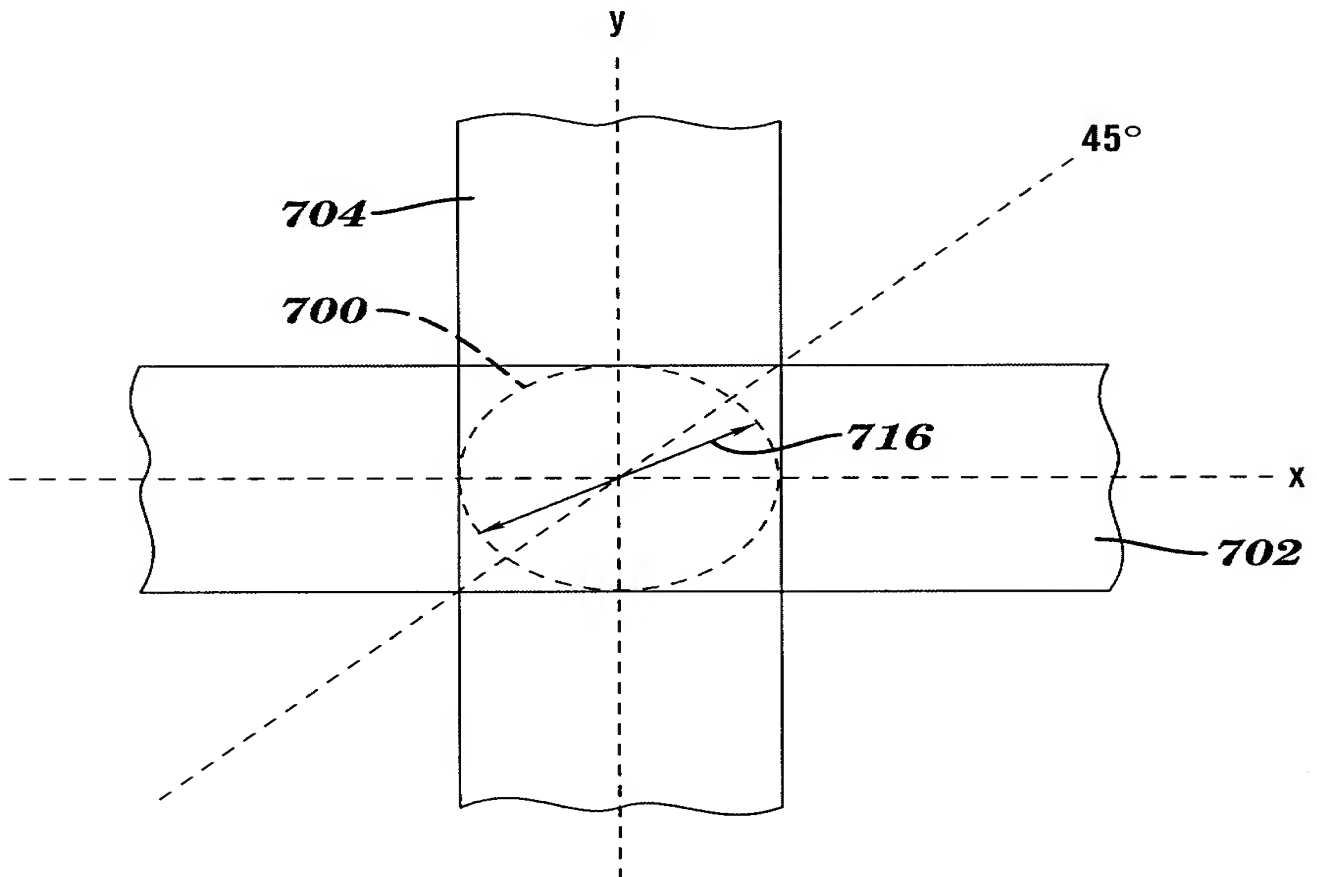


FIG. 6(a)

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 $H_i = 10$ Oe, $M_s = 1500$ emu/cc, $a = b = 300$ nm, $J = 0$ **FIG. 6(b)** $H_i = 10$, $M_s = 1500$ emu/cc, $a = b = 300$ nm, $J = 0$ **FIG. 6(c)**

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**FIG. 7****FIG. 8**